

CONTENTS

Articles

- Prenatal ethanol exposure fails to affect stimulus reactivity in the rat.
MEANS, L. W., S. L. GRAY and C. W. MEDLIN 1
- Ethanol exposure in rats: Studies on blood gas concentrations, pH and temperature.
MURRAY, K. A., W. J. WHITE and I. S. ZAGON 5
- Frequencies of glyoxalase I phenotypes as biological markers in chronic alcoholism.
LEDIG, M., M. DOFFOEL, M. ZIESSEL, P. KOPP, A. CHARRAULT,
M. M. TONGIO, S. MAYER, R. BOCKEL and P. MANDEL 11
- Striatal dopamine does not appear involved in the voluntary intake of ethanol by rats.
DAOUST, M., N. MOORE, C. SALIGAUT, J. P. LHUINTRE, P. CHRETIEN and
F. BOISMARE 15
- Pre-pregnancy alcohol experience attenuates typical decrease in gestational alcohol consumption in mice.
BECKER, H. C., C. L. RANDALL and R. F. ANTON 19
- Dose and time dependent cerebrovascular and metabolic effects of ethanol.
HOFFMAN, W. E., D. J. MILETICH and R. F. ALBRECHT 23
- Learned alcohol aversions in rats: Gustatory and olfactory components.
KIEFER, S. W., G. J. LAWRENCE and C. W. METZLER 27
- Chronic alcohol dependence and water-electrolyte status.
TANG, M. and J. L. FALK 33
- Consumption of ethanol solution is potentiated by morphine and attenuated by naloxone persistently across repeated daily administrations.
HUBBELL, C. L., S. A. CZIRR, G. A. HUNTER, C. M. BEAMAN,
N. C. LECANN AND L. D. REID 39
- Neural and behavioral responsivity to ethyl alcohol as a tastant.
DI LORENZO, P. M., S. W. KIEFER, A. G. RICE and J. GARCIA 55
- Elevation by ethanol and its metabolites of liver adenosine monophosphate.
LINDROS, K. O., R.-L. KIVIKATAJA and A. SUOKAS 63
- The ability of divalent cations to enhance ethanol-induced sleeping time.
SUTOO, D., K. AKIYAMA and K. IIMURA 69
- Circadian drinking rhythms and blood alcohol levels in two rat lines developed for their alcohol consumption.
AALTO, J. 73
- Differences in the sleep-wake patterns of the AA and ANA rat lines developed for high and low alcohol intake.
AALTO, J. and L. HILAKIVI 77



CONTENTS

Introduction	81
Alcoholism	
Alcoholism: Epidemiology, diagnosis, and biological aspects.	
NACE, E. P.	83
The effects of comprehensive inpatient alcoholism treatment on measures of loss and grief.	
McGOVERN, T. F.	89
Hopelessness in the alcoholic patient.	
McGOVERN, T. F.	93
Loss identification in the treatment of alcoholism.	
McGOVERN, T. F.	95
Lithium Salts	
Lithium orotate in the treatment of alcoholism and related conditions.	
SARTORI, H. E.	97
Teratogenic effects of lithium and ethanol in the developing fetus.	
SHARMA, A. and A. K. RAWAT	101
Lithium and the neonate: Developmental and metabolic aspects.	
MESSIHA, F. S.	107
Carbamazepine	
Alcohol withdrawal and carbamazepine.	
BUTLER, D. and F. S. MESSIHA	113
Carbamazepine and ethanol elicited responses in rodents.	
MESSIHA, F. S., D. BUTLER and M. K. ADAMS	131
Determination of carbamazepine by HPLC electrochemical detection and application for estimation of imipramine, desipramine, doxepin and nordoxepin.	
MESSIHA, F. S.	135
Maternal Ethanol Consumption	
Development of hepatic bilirubin glucuronidation as affected by prolonged maternal ethanol intake.	
RAWAT, A. K. and A. SHARMA	139

VOLUME INDEX

Zinc and ethanol: Dietary interrelationships in pregnant rats.

- SHETLAR, C. L., D. C. COGAN, G. W. SPARKMAN, M. M. WANG and
M. R. SHETLAR 145

Substances of Abuse

Effects of *in utero* administration of phenobarbital on γ -glutamyl transpeptidase.

- REYES, E., K. GARCIA, J. WOLFE and D. SANDOVAL 153

Nicotine and carbon monoxide: Effects on the isolated rat heart.

- McGRATH, J. J. 157

CONTENTS

Effect of ethanol, acetaldehyde and acetate on the antioxidant-sensitive respiration in the perfused rat liver: Influence of fasting and diethylmaleate treatment.	
VIDELA, L. A. and M. I. VILLENA	163
The inefficient transfer of maternally fed alcohol to nursing rats.	
SWIATEK, K. R., G. J. DOMBROWSKI, JR. and K.-L. CHAO	169
Drinking practices and neuropsychological test performance in sober male alcoholics and social drinkers.	
SCHAEFFER, K. W. and O. A. PARSONS	175
Effect of 3-amino-1,2,4-triazole pretreatment on ethanol blood levels after intraperitoneal administration.	
TAMPIER, L. and J. MARDONES	181
Alcohol-induced microencephaly during the third trimester equivalent: Relationship to dose and blood alcohol concentration.	
PIERCE, D. R. and J. R. WEST	185
Concordant alcohol and marihuana use in women.	
LEX, B. W., M. L. GRIFFIN, N. K. MELLO and J. H. MENDELSON	193
Effects of prenatal alcohol exposure on nose poking in year-old rats.	
ABEL, E. L. and B. A. DINTCHEFF	201
Aldehyde dehydrogenases, aldehyde oxidase and xanthine oxidase from baboon tissues: Phenotypic variability and subcellular distribution in liver and brain.	
HOLMES, R. S. and J. L. VANDEBERG	205
Effect of acetaldehyde on urinary salsolinol in healthy man after ethanol intake.	
ADACHI, J., Y. MIZOI, T. FUKUNAGA, M. KOGAME, I. NINOMIYA and T. NAITO	215



CONTENTS

Articles

Monitoring alcoholism treatment:

The appropriateness of choice between γ GT or MCV evaluation after a short time of abstinence.

MONTEIRO, M. G. and J. MASUR 223

 ^{13}C -ethanol and ^{13}C -acetate breath tests in normal and aldehyde dehydrogenase deficient individuals.LEHMANN, W. D., H. C. HEINRICH, R. LEONHARDT, D. P. AGARWAL,
H. W. GOEDDE, J. KNEER and D. RATING 227

Altered calcium signal transduction after chronic ethanol consumption.

RIUS, R. A., S. GOVONI, L. GUAGNO, A. C. P. ARAUJO and M. TRABUCCHI 233

Endogenous ethanol—Its metabolic, behavioral and biomedical significance.

OSTROVSKY, YU. M. 239

Ethanol-induced hypothermia in rats: Possible involvement of opiate Kappa receptors.

PILLAI, N. P. and D. H. ROSS 249

Prenatal ethanol and ontogeny of pituitary-adrenal responses to ethanol and morphine.

TAYLOR, A. N., B. J. BRANCH, L. R. NELSON, L. A. LANE and
R. E. POLAND 255

Organ growth and cellular development in ethanol-exposed rats.

GALLO, P. V. and J. WEINBERG 261

Blood alcohol concentration: A critical factor for producing fetal alcohol effects.

PIERCE, D. R. and J. R. WEST 269

Rapid Communication

Central Ca^{++} -channel blockade reverses ethanol-induced poikilothermia in the rat.

REZVANI, AMIR H., C. M. MACK, S. I. CROVI and R. D. MYERS 273



CONTENTS

Norepinephrine-induced diuresis in chronically ethanol-treated rats. POHORECKY, L. A.	283
The trauma questionnaire for detecting alcohol abuse: Limiting factors. MONTEIRO, M. G., M. L. N. PIRES and J. MASUR	287
Influence of mouse genotype on responses of central cholinergic neurotransmission to long term alcohol intoxication. FUHRMANN, G., F. BESNARD, J. KEMPF, E. KEMPF and A. EBEL	291
The effects of environmental enrichment on voluntary ethanol consumption and stress ulcer formation in rats. ROCKMAN, G. E., T. B. BOROWSKI and G. B. GLAVIN	299
Methadone, pentobarbital, pimozide and ethanol-intake. MUDAR, P. J., N. C. LECANN, S. A. CZIRR, C. L. HUBBELL and L. D. REID	303
Substitution of chlordiazepoxide for ethanol in alcohol-dependent mice. CHAN, A. W. K., M. C. LANGAN, F. W. LEONG, M. L. PENETRANTE, D. L. SCHANLEY and L. ALDRICH-CASTANIK	309
Cardiorespiratory inhibitory reflex induced by intravenous administration of acetaldehyde in rats. BRUGERE, S., A. SAAVEDRA and M. PENNA	317
Memory for temporal order and frequency of occurrence in detoxified alcoholics. SALMON, D. P., N. BUTTERS and M. SCHUCKIT	323
Effects of scheduled access on ethanol intake by the alcohol-preferring (P) line of rats. MURPHY, J. M., G. J. GATTO, M. B. WALLER, W. J. McBRIDE, L. LUMENG and T.-K. LI	331



CONTENTS

Articles

- Effect of alcohol on behavioral and autonomic thermoregulation in mice.**
GORDON, C. J. and A. G. STEAD 339
- Influence of mouse genotype on responses of central biogenic amines to alcohol intoxication and aging.**
BESNARD, F., E. KEMPF, G. FUHRMANN, J. KEMPF and A. EBEL 345
- Hypothalamic and serum catecholamines in ethanol and acetaldehyde treated guinea-pigs. Relation to moderate short-term cold exposure.**
KORTELAJINEN, M.-L., T. LAPINLAMPI and P. HUTTUNEN 351
- Mild but prolonged elevation of serum angiotensin converting enzyme (ACE) activity in alcoholics.**
OKUNO, F., M. ARAI, H. ISHII, Y. SHIGETA, Y. EBIHARA, S. TAKAGI and
M. TSUCHIYA 357
- Ethanol polydipsic choice: Effects of alternative fluid polydipsic history.**
TANG, M. and J. L. FALK 361
- 1, 4 Butanediol and ethanol compete for degradation in rat brain and liver in vitro.**
POLDRUGO, F. and O. C. SNEAD, III 367
- Individual difference in urinary excretion of salsolinol in alcoholic patients.**
ADACHI, J., Y. MIZOI, T. FUKUNAGA, Y. UENO, H. IMAMICHI,
I. NINOMIYA and T. NAITO 371
- REM-sleep deprivation-induced increase in ethanol intake: Role of brain monoaminergic neurons.**
AALTO, J. and K. KIIANMAA 377
- Rapid Communication**
- Antagonism by naltrexone of voluntary alcohol selection in the chronically drinking macaque monkey.**
MYERS, R. D., S. BORG and R. MOSSBERG 383
- Index to Volume 3 389**